

Soil Humidity Fluctuations of Short Duration, as a
Factor Modifying the Development of Summer Barley.
Part I, by I. Jackowska, 30p.

POLISH, per, Pamiętnik Pulawski, Prace Instytutu
Uprawy, Nawożenia i Gleboznawstwa, Zeszyt, Vol 10,
1963, pp 3-32.

*OTB TT 65-50339

EFCSI

EE-Pol
Sci/BEM
Apr 65

Soil Humidity Fluctuations of Short Duration, as a
Factor Modifying the Development of Summer Barley.
Part II, by I. Jackowska, 19 p.

POLISH, per, Pamietnik Pulawski, Prace Instytutu
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*OTS TT 65-50340

SFCSI

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Soil Humidity Fluctuations of Short Duration, as a
Factor Modifying the Development of Summer Barley,
Part III, I. Jackowska, 19 p.

POLISH, per, Pamiętnik Pulawski, Prace Instytutu
Uprawy, Nawożenia i Gleboznawstwa, Zeszyt, Vol 10,
1963, PP 57-75.

*OTS TT 65-50341

SFCSI

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Studies on Cereal Rusts Part II, Observations
on Stem Rusts (*Puccinia Graminis*), by
Marek Ruszkowski,
POLISH, per, Pamiętnik Pulawski, No 10, 1963,
pp 95-110.
CFSTI TT 65-50342

Sci-Agri
Dec 67

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Study on the Biology of Grain Germination Part
III, Variability of the Germination Power and
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Period from Harvest to Sowing Time, by
S. Lewski and J. Mazurek, et al,
POLISH, per, Pamiętnik Pulawski, No 10, 1963,
pp111-125.
CFSTI TT 65-50343

Sci-Agri
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Study on the Biology of Grain Germination Part
I. Variability of the Germination Power and
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by S. Lewicki and J. Mazurek, et al,
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pp 129-148.
CESTI TT 65-50344

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Growth, Development and Variability of Some
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Causes of Bad Fruit Yield of Buckwheat. Part V
Investigations on Self Polination, by J. Mazurek,
M. Ruzkowski, 6p.
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*OTS TT 65-50346
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Density of Sowing Corn. Part 11. Effects of Various Spacings Between Plants on Yields of Corn Grown for Sialge. General Characteristics of Research Work Accomplished and of Experimental Conditions, by Mieczysław Birecki, Franciszek Rudkiewicz.

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LA - Argentina
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Econ
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omit tables, -no repro- but incl captions,

doc- do not mutilate

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A Declaration of Norman Thomas on the Dominican
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SPANISH, per, Panoramas, Vol III, No 16, pp (b-d).
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Feb 57 CTS

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LOCAL GOVERNMENT ORGANS IN MONGOLIAN PEOPLE'S
REPUBLIC, BY MICHAEL J. LINDA, 10 PP.

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PP 812-818.

JPRS 17364

FE - MONGOLIA

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*US JPRS

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Rolne w Roku Gospodarczym 1959/60, Copy #59,
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EEur - Poland

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Jan 62

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POLISH, per, Panstwowe Wydawnictwo Rolnicze i
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1951, p 62.
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Apr 65

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Importancia Para el Aumento de la Produccion
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País, Feb 1964, pp. 2-78.
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ID 2237293

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Sep 63

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The Armored Infantry Battalion, Armored Carriers,
Army Service Regulations 231/1, 163 pp. FOR
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GERMAN, rpt, Das Panzergrenadierbataillon (SPZ),
RDW 231/1, *Mar 1962, pp 1-263, 9689845*

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ID 2237294

Wahr: - W., Germany
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Carrier, 91 pp.
GERMAN, manual, Die Panzergrenadierkompanie SPz, Bonn,
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ID 2204004464

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Mar 64

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of Gas and Water Engineers, Koenigsberg, 1935.
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Sci -
Aug 67

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Pellinen, H.

TENSILE STRENGTH AND MOISTURE CONTENT OF
PAPER. [1963] 10p (figs omitted) 2 refs
Order from SLA \$1.10

TT-63-18181

Trans. of Paperi ja Puu (Finland) 1941, v. 23, no. 15
[p. 293-300] (Abstract available)

DESCRIPTORS: *Paper, Moisture, Tensile properties,
Hysteresis, Manufacturing methods,

The moisture absorbed by paper from the atmosphere
is dependent on the type of fibre used and also on the
method of beating and drying; varies considerably at
different r.h. levels and temperatures. At r.h. levels
above 70% the moisture absorption of paper begins to
rise steeply. In comparing the water content of paper
in an atmosphere of both increasing and decreasing
moisture content one can clearly observe the appear-
ance of hysteresis phenomenon. It is difficult to ob-
(Materials--Paints, TT, v. 11, no. 5) (over)

TT-63-18181

I. Pellinen, H.

GR/15

Office of Technical Services

Some Results Obtained During Tests For
Volatile Sulphur Compounds in Sulphate
Turpentine, by T. Enkvist, 13 pp.

FINNISH, per, Paperi ja Puh, Vol. XXIX,
No 3, 1947, pp 38-44.

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Sci
Vol IV, No 11
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Murto, Jaakko.
CHIPPING OF PULPWOOD. [1962] [13]p. (refs.
omitted).
Order from SLA \$1.60 63-10756

Trans. of [Paperi ja Puu] (Finland) 1947, v. 29,
p. 263-268, 270-273.

DESCRIPTORS: *Wood pulp, Chipping hammers,
*Sulfiter, Cutting tools, *Paper industry, *Wood pulp
machines.

(Materials--Wood, TT, v. 9, no. 12)

1. Murto, J.

Office of Technical Services

Bamling in Mill Beater and Jordan Refiner,
by Ilkka Tolvi, 2 5 pp.

FINNISH, per, Papari ja Paa, Vol XXXIII,
No 2, 1951, pp 27-32.

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Vol. IV, No 11

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ESTIMATION OF THE SAMPLING ERROR IN DIRT CONTROL
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Order from SLA: SL10 as TT-65-12301

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Points of View on Supercalendaring, by F. Sundin.

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FINNISH, per, Paperi Ja Puu, Vol. XXXVII, No 2,
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Kuori-Pete barking machine. Paperi ja Puu, no. 10,
p. 484, 1955.

Some Biochemical Experiments With Spent Liquors,
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FINNISH, per, Paperi ja Puu, Vol XXXVII, No 3,
1955, pp 53-60.

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Sci - Biol

Feb 62

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Some Questions in Connection With the Evaluation of
Dissolving Pulps, by E. Treiber, 31 pp.

FINNISH, per, Paperi ja Puu, Vol XXXVIII, No 4a,
1956, pp 145-152.

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Sci - Chem
Sep 59
Vol 2, No 1

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Practical Operation of a Dielectric Sheet
Moisture Meter on Newsprint Machines, by
K. Vesterinen, 5 pp.

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FINNISH, per, Paperi ja Puh. No 4, 1956, p 231.

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Practical Operation of a Dielectric Sheet
Moisture Meter on Newsprint Machines, by K. Vesterinen.
FINNISH, per, Paperi Ja Puh, No 4, 1956, p 237.

ASLIB-GB15

Sci
Aug 58

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Present State Of Cellulose-Chemical Research by
Hannes Siltola.

^{ISSN}
SWED, ~~Per~~, Paperi Ja Puu (Paper and Timber), Vol
XXXVIII, No 9, 1956, pp 391-400.

CSIRC

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Research in the Paper Field Today, by L.
Nordman.

FINNISH, per, Paperi Ja Pori, Vol XXXIX,
No 9, 1956, pp ~~401~~, 403-408.

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Sci - Phys
Jul 62

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On the Methods Used in Board Research at
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by J. Paronen.

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No 9, 1956, pp 413-440.

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Sci - Engr
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Chemical Analytical Methods in the Cellulose
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FINEISH, per, Paperi ja Pua, Vol XXVIII,
No 9, 1956, pp 429-434.

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Sci - Chem
Fun 62

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On the Strength Testing of Chemical Pulp,
by T. Ekstam.

FINNISH, per, Paperi ja Puu, Vol XXXVIII,
No 9, 1956, pp 435-441.

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Cellulose as a Raw Material for the Cellulose
Industry, by S. Kaila, 14 pp.

FINNISH, per, Paperi & ja Puu, Vol XXXVIII, 1956,
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Sci - Chem

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By-Products Of the Sulphate Pulp Industry, and Their
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On the Prospects of Fermentation Industry,
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FINNISH, per, Paperi ja Puu, Vol XXXVIII,
No 9, 1956, pp 462-464.

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NoBur - Finland
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Apr 62

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On the Process Water of the Chemical
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No 9, 1956, pp 466-470.

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Jun 62

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Physical Tools in Wood Research, by B. C. Fogelberg,
FINNISH, per, Paperi ja Puu, Vol XXXVIII,
No 9, 1956, pp 471-474.

CSIRO

Sci - Biol
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A Survey of Some Investigations Concerning the
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FINNISH, per, Paperi ja Pua, Vol XXXIX,
No 3, 1957, pp 99-108.

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Sci - EN Biol

Mar 62

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Use of Mannogalactan Vegetable Gums in the Paper Industry, by Karna, Nordman.

FINNISH, per, Paperi Ja Puu, Vol XL, No 2, 1958, pp 45.

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On the Extractives of Birch Sulphate Pulp I.
Extract Content Versus Felling Date, by O. Perila,
9 pp.

FINISHI, per, Paperi ja Puu, Vol XL, No 4a, 1958,
pp 159, 160, 162-164.

SIA 59-10219

Sci - Chem
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The Effect of Some Polysaccharide Addition on the
Properties of Paper, by Rytteri Antti, Pekka
Jouhilahti, 15 pp.

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pp. 561-564.

SIA 50-15723

Sci
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Vol 2, No 3

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Snellman, Erik, J.
ON PULP DRYERS. [1962] 6p. (figs. omitted).
Order from SLA \$1.10

62-16503

Trans. of Paperi ja Puu (Finland) 1959, v. 41, no. 12,
p. 604-608 and 610.

DESCRIPTORS: *Paper, Heat transfer, Steam, *Wood
pulp fibers, Fiberboard, Blowers, Dehydration.

(Materials--Paper, TT, v. 8, no. 10)

62-16503

I. Snellman, E. J.

Office of Technical Services

61-10920

Novalainen, K[auko].
CARBOXYMETHYL-CELLULOSE AND ITS USE IN
THE MANUFACTURE OF PAPER AND PAPERBOARD.
[1961] [11] p. 7 refs.
Order from SLA m\$2.40, p\$3.30

61-10920

Trans. of Paperi ja Puu (Finland) 1960, v. 42, no. 3,
p. 99-104.

1. Carboxymethyl cellulose--
Applications
2. Paper--Production
1. Novalainen, K.

158983

Office of Technical Services

(Materials--Paper, TT, v. 5, no. 11)

Halme, M.
EFFECT OF FINES IN THE DILUTION WATER ON
THE ACCURACY OF CONSISTENCY REGULATION.
[1961] 4p. (2 figs. omitted).
Order from SLA mi\$1.80, ph\$1.80 61-10623

Trans. of Paperi ja Puu (Finland) 1960, v. 42, no. 4a,
p. 235-237.

A calculation is made of the error that is caused im-
mediately in the consistency regulation as a result of
fines in dilution water. The indirect effect of disturb-
ance on dilution water consistency regulation is
ignored.

(Materials--Paper, TT, v. 5, no. 12)

61-10623

1. Paper--Processing
1. Halme, M.

148593

Office of Technical Services

Schurz, J.
PHYSICO-CHEMICAL INVESTIGATIONS ON THE
STATE OF SOLUTION OF VISCOSE. [16 Jul 63]
[20p] 5 refs
Order from SLA \$1.60 TT-64-10934

Trans. of Paperi ja Puu (Finland) 1960, v. 42, no. 7,
p. 401-409.

(Materials--Textiles, TT, v. 11, no. 12)

TT-64-10934

I. Schurz, J.

Office of Technical Services

Ryti, N. and Pirolinen, E.
A METHOD OF MEASURING THE DRAWS
BETWEEN PAPER MACHINE SECTIONS. Dec 60.
4p. (6 figs. omitted) 3 refs.
Order from SLA ml\$1.80, ph\$1.80 61-10609

Trans. of Paperi ja Puu (Finland) 1960, v. 42, no. 8,
p. 443-447.

A comparatively accurate measurement of draws
between sections can be arranged on continuous drive
paper machines, with the help of mechanical or elec-
trical differential and tachogenerators. The differ-
ences in rpm which can be compared by means of the
differential can be "magnified" so that tachogenerator
measuring errors will not appreciably affect the final
result. The method has been adapted for use on a
paper machine equipped with a mechanical differential
drive, by using the differential gears in the gear-
boxes of the sections as an aid to measurement.
(Author)
(Materials--Paper, TT, v. 5, no. 12)

61-10609

1. Paper--Production
 2. Machines--Design
- I. Ryti, N.
 - II. Pirolinen, E.

148588

Office of Technical Services

Abnormal Wood Fibres, by E. Comrens.
FINNISH, per, Paperi Ja Puu, Vol 43, No 2, 1961,
pp 47-62
HEDSIR/Ref 778

Sci -
Aug 67

335,110

Pulp Manufacture and Sulphite Processes, by E. S.
Sjostrom.

SWEDISH, per, Paperi Ja Pua, Vol XLIII, 1961,
pp 37X-46.

NRC/C-3678

SLA 61-16553

Sci

Dec 62

185, 692

Soluble Base Recovery in Manufactureing Sulfite
Pulp, by S. O. Hultin, 10 p.
FINNISH, per, Paperi ja Puu, Vol XXXIV, No 4 a, 1961,
pp 168-192.
IICH-8691

Sci-M&M
Jun 66

304,456

Angervuori, K. and Kenetti, A.
DETERMINATION OF THE SUITABILITY OF UN-
BLEACHED SULPHITE PULP FOR USE IN THE
PRODUCTION OF GREASEPROOF PAPER. Sep 61,
11p. (11 figs. omitted) 20 refs.
Order from SLA \$1.60

61-20887

Trans. of Paperi ja Puu (Finland) 1961, v. 43, no. 3,
p. 83-92.

DESCRIPTORS: *Paper, Production, *Wood pulp,
Cellulose, *Sulfitess, Determination, Quality control,
Wood pulp machines, Laboratory equipment,
Industrial research, Area suction, Drainage.

It is confirmed that the cooking conditions for grease-
proof pulps, which one attempts to conform to in the
Manta pulp mills are suitable, and the pulp quality of
the same general characteristics as are usually de-
(Materials--Paper, TT, v. 7, no. 4) (over)

61-20887

I. Angervuori, K.
II. Kenetti, A.

Office of Technical Services

Loraa, V.
CHANGES IN WHITENESS AND OPACITY OF PAPER
BY ADDITION OF DYES AND OPTICAL BRIGHT-
ENERS. 18 July 61, 16p. (12 figs. 1 table omitted)
8 refs.

Order from SLA \$1.60

61-18800

Trans. of Paperi ja Puu (Finland) 1961, v. 43, no. 4,
p. 169-180.

DESCRIPTORS: *Paper, *Dyes, Optics, Brightness,
Colors, Additives, Light, Absorption.

The effect on opacity of light absorption and scattering
and the possibilities of increasing the opacity and
visually estimated whiteness are discussed. Experi-
ments with the addition of blue dyes to mixtures of
groundwood and unbleached sulfite pulp (85:15) con-
firmed the results known from the literature that the
opacity increases on the addition of such dyes. If the
(Materials--Paper, TT, v. 6, no. 10) (over)

61-18800

I. Loraa, V.

288

Office of Technical Services

Comparison of Raw Materials for Making Chipboard, by
A VaaJoensuu.

FINNISH, per, Paperi Ja PUU, Vol. 43, 1961, pp 407-408.
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Halme, Matti.

APPLICATION OF THE MANIFOLD-PRINCIPLE IN THE DISTRIBUTION PIPING DESIGN OF PAPER MACHINE HEADBOXES. I. FUNDAMENTALS OF MANIFOLD SYSTEMS. 31 May 62, 10p. (4 figs. omitted) 13 refs.

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Trans. of Paper Inst. (Finland) 1961, v. 44, no. 12, p. 777-781.

DESCRIPTORS: *Paper, Machines, Pipes, Distribution, *Fluid flow, Velocity, Friction, Viscosity, Mathematical analysis.

In this paper main types of distribution pipings for paper machine headboxes are described in brief. The theoretical background of true manifold-systems is presented and a formula derived for calculating the contour of the uniformly discharging manifold header (Materials - Papers, TT, v. 8, no. 8) (over)

I. Halme, M.
II. Title: Fundamentals . . .

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